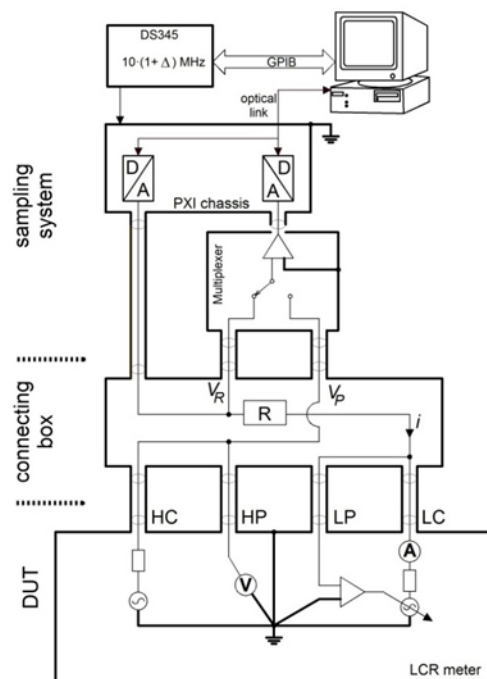


## 14AS042 Impedance Simulator for Automatic Calibration of LCR Meters: Proof-of-Principle Experiment

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The calibration of LCR meters is a time consuming task that requires the availability of many high accurate impedance standards. The use of an impedance simulator will greatly simplify this task and will permit the calibration of the LCR meter over the whole complex plan. The principle of such a new impedance simulator based on a sampling system is described.



*Setup of the LCR meter's calibration using the impedance simulator.*

## 14AS044 Power Profile Generator for the Test of Microgrid Measurement and Control Systems

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Testing the behaviour of a microgrid measurement and control systems for responsiveness, dynamics and control capability assumes great importance to ensure the ability to meet energy demand by local distributed energy resources. The proposed work describes the design of a power profile generator that synthesises appropriate power demand inputs to test the behaviour of microgrid measurement and control algorithms.